ABSTRACT

The present invention is directed to a system and method for percutaneous delivery of bone cement during a surgical procedure. The system of the present invention has a plunger assembly 100, comprising: a shaft having a first end, a middle section, and a second end, wherein the middle section is threaded; and a handle attached to the first end of the shaft. The system further comprises a dispenser hub assembly 200 around the shaft having a collar and a hand-grip attached to the collar, and a threaded portion formed on an interior surface of the collar. The system may further comprise a hollow tube 300 for containing the bone cement during the surgical procedure having a first end and a second end, the first end of the hollow tube adapted to be removably engaged with the threaded portion of the dispenser hub assembly. The shaft is axially displaceable through the hollow tube for controlled displacement of the bone cement through the second end of the hollow tube. The system of the present invention may be provided as a kit, which may further comprise: at least one tubing assembly, at least one cannula, and at least one stylet. The stylet may have a tip geometry selected from the group consisting of: a sharp pyramid tip, an angled tip, a blunt tip, and a corkscrew tip.

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